

4K HDBT Auto-Tracking Camera

79068-Ultra Data Sheet

TEKVOX's 79068-Ultra is an advanced 4K HDBaseT PTZ auto-tracking camera which consolidates all connections across a single CAT cable up to 328 ft (100m) long. The included receiver powers the camera and provides HDMI, USB 3.0, LAN, RS232, IR, and Audio In & Out connections at the receiver. The camera and receiver are connected by a single cable, and all interfaces on the receiver are simultaneously active.

The camera features 12x optical zoom and 4Kx30Hz video resolution for excellent image quality, and includes power and an audio input for integrating an analog microphone. The camera's sophisticated facial recognition and ISP algorithms deliver fast and accurate tracking without requiring any setup. Settings and video preview are provided via a dedicated HTML5 web GUI. To ensure proper operation, the Ultra Cam must be connected to its receiver using shielded CAT6A or better.

Features:

- Single-cable connection using HDBaseT
- Advanced ISP algorithm and face detection for precise auto-tracking without any setup
- Exceptional image quality with 4K resolution and 12x optical zoom
- Smooth and quiet PTZ movement
- 255 programmable presets for near-limitless customization
- Included receiver features HDMI, USB 3.0, LAN, RS232, IR, and Audio In & Out
- Must be used with a shielded CAT cable for electrical safety



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79068-Ultra Technical Specifications

Camera	
Image Sensor	8.29M megapixel, 1/2.8 inch high-quality SONY CMOS sensor
Minimum Illumination	0.5 Lux (F1.8, AGC On)
Lens	12x zoom (optical), 15x zoom (digital)
Focus	Auto / Manual / One-Push Trigger / PTZ Trigger
Focal Length	3.5 ~ 42mm ± 5%
Aperture	F1.8 ~ F11, CLOSE
Field of View (FOV)	80° (wide) ~ 8° (tele)
PTZ Movement Range	-170° ~ +170° (pan) -30° ~ +90° (tilt)
PTZ Movement Speed	-0.1°/s ~ 35°/s (pan) 0.1°/s ~ 30°/s (tilt)
Video Adjustment	Brightness, Color, Saturation, Contrast, Sharpness, B/W Mode, Gamma Curve
Image Auto Adjustment	Backlight Compensation (BLC), Wide Dynamic Range (WDR), 2D & 3D Noise Reduction (NR)
Interfaces	1x HDBT Out (RJ45, Female) 1x USB Out (USB 3.0, Type-B, Female) 1x Line In (3.5mm mini jack, Female) 1x Mic Power (2-Pin Phoenix) 1x DC 12V
Receiver	
Interfaces	1x HDBT In (RJ45, Female) 1x Ethernet (10M/100Mbps, Default IP 192.168.5.163) 1x HDMI Out (19-Pin, Female) 1x USB Out (USB 3.0, Type-B, Female) 1x IR In (3.5mm mini jack, Female) 1x Line In (3-Pin Phoenix, Balanced Mono) 1x Audio Out (3-Pin Phoenix, Balanced Mono)
Input Resolution	HDBaseT: Up to 4Kx2K @ 60Hz 4:2:0
Video Compression	MJPEG, H264/265, YUY2, NV12
Output Resolution	HDMI: Up to 4Kx2K @ 30Hz 4:4:4 USB: Up to 1280x720 @ 30Hz
Line Level	10 dBV with max level of 6 dBV
Power Supply	DC 24V, 2.7A
Power Consumption	12W (max)
Receiver Dimensions	7.69 in. (195mm) x 5.31 in. (135mm) x 1 in. (25mm)
Receiver Weight	0.98 lbs. (446 g)
General	
Storage Temperature	14° F ~ 158° F (-10° C ~ +70° C), 20% ~ 95% humidity
Operating Temperature	14° F ~ 122° F (-10° C ~ +50° C), 20% ~ 80% humidity
Network Protocols	RTSP, RTMP, ONVIF, GB/T28184-14, VISCA IP (Port #1259), RTMPS, SRT
Network Control Protocols	VISCA / PELCO-D / PELCO-P Baud Rate: 115200 / 38400 / 9600 / 4800 / 2400
USB Protocols	UVC (Video), UAC (Audio)
Camera Dimensions	7.13 in. (181mm) x 4.5 in. (115mm) x 5.83 in. (148mm)
Camera Weight	2.75 lbs. (1.25 kg)

Specifications are subject to change without notice